Volume Contents

NUMBER 1

B. Chen, Y. Huang, H. Gao and **P. D. Wu**	1	Shear crack propagation along weak planes in solids: a finite deformation analysis incorporating the linear harmonic potential
D. Kuhl, F. Bangert and **G. Meschke**	15	Coupled chemo-mechanical deterioration of cementitious materials. Part I: Modeling
D. Kuhl, F. Bangert and **G. Meschke**	41	Coupled chemo-mechanical deterioration of cementitious materials Part II: Numerical methods and simulations
W. Q. Chen, H. J. Ding and **D. S. Ling**	69	Thermoelastic field of a transversely isotropic elastic medium containing a penny-shaped crack: exact fundamental solution
L. S. Ma and **T. J. Wang**	85	Relationships between axisymmetric bending and buckling solutions of FGM circular plates based on third-order plate theory and classical plate theory
R.-M. P. Duval	103	Quasi-static evolution of delaminated structures: analysis of stability and bifurcation
Y. Lu and **K. Xu**	131	Modelling of dynamic behaviour of concrete materials under blast loading
H. K. Beom and **S. K. Youn**	145	Electrical fracture toughness for a conducting crack in ferroelectric ceramics
I. V. Kharun and **V. V. Loboda**	159	A thermoelastic problem for interface cracks with contact zones
X. Zhao	177	Exact solutions of stress intensity factor histories for a half plane crack in a transversely isotropic solid under transient point shear loading on the crack faces
I. Einav and **A. M. Puzrin**	199	Continuous hyperplastic critical state (CHCS) model Derivation
M. Cho and **S. Y. Rhee**	227	Optimization of laminates with free edges under bounded uncertainty subject to extension, bending and twisting
F. Xun, G. Hu and **Z. Huang**	247	Effective in plane moduli of composites with a micropolar matrix and coated fibers
VU. D. Khoi, A.-M. Yan and **N.-D. Hung**	267	A dual form for discretized kinematic formulation in shakedown analysis

Y. Xiang and G. W. Wei 279 Exact solutions for buckling and vibration of stepped rectangular Mindlin plates

III Keywords

NUMBER 2

K. K. Tseng 295 A statistical micromechanics-based multi-scale framework for effective thermomechanical behaviours of particle reinforced composites

A. Abdul-Latif 305 Pertinence of the grains aggregate type on the self-consistent model responses

C.-F. Gao, C. Häusler and H. Balke 323 Periodic permeable interface cracks in piezoelectric materials

J. Lu 337 Exact expansions of arbitrary tensor functions $\mathbf{F}(\mathbf{A})$ and their derivatives

A. Simone, H. Askes and L. J. Sluys 351 Incorrect initiation and propagation of failure in non-local and gradient-enhanced media

K. K. Shukla, J.-M. Chen and J. H. Huang 365 Nonlinear dynamic analysis of composite laminated plates containing spatially oriented short fibers

A. Mugadu, D. A. Hills, J. R. Barber and A. Sackfield 385 The application of asymptotic solutions to characterising the process zone in almost complete frictional contacts

J.-J. Han and M. Dhanasekar 399 Modelling cracks in arbitrarily shaped finite bodies by distribution of dislocation

T. Andersson and U. Stigh 413 The stress–elongation relation for an adhesive layer loaded in peel using equilibrium of energetic forces

S. Biwa, S. Yamamoto, F. Kobayashi and N. Ohno 435 Computational multiple scattering analysis for shear wave propagation in unidirectional composites

Q. Grimal, S. Naïli and A. Watzky 459 On the transmission of transient elastodynamic waves at a frictionless contact interface; application to a weakly coupled bimaterial

B. Banerjee and D. O. Adams 481 On predicting the effective elastic properties of polymer bonded explosives using the recursive cell method

I. Carol, M. Jirásek and Z. P. Bažant 511 A framework for microplane models at large strain, with application to hyperelasticity

A. Lengyel and Z. You 559 Bifurcations of SDOF mechanisms using catastrophe theory

E. Zaretsky, G. deBotton and **M. Perl** 569 The response of a glass fibers reinforced epoxy composite to an impact loading

NUMBERS 3–4

P. Franciosi and **G. Lormand** 585 Using the radon transform to solve inclusion problems in elasticity

Y.-H. Chen and **T. J. Lu** 607 On the path dependence of the J-integral in notch problems

J.-S. Liu and **T. J. Lu** 619 Multi-objective and multi-loading optimization of ultralight-weight truss materials

M.-Y. Chang, J.-K. Chen and **C.-Y. Chang** 637 A simple spinning laminated composite shaft model

L. Noels, L. Stainier and **J.-P. Ponthot** 663 On the use of large time steps with an energy momentum conserving algorithm for non-linear hypoelastic constitutive models

C. M. Landis 695 In-plane complex potentials for a special class of materials with degenerate piezoelectric properties

Z. Sun, K.-T. Wan and **D. A. Dillard** 717 A theoretical and numerical study of thin film delamination using the pull-off test

G.-Y. Huang, Y.-S. Wang and **S.-W. Yu** 731 Fracture analysis of a functionally graded interfacial zone under plane deformation

S. Y. Wang, S. T. Quek and **K. K. Ang** 745 Dynamic stability analysis of finite element modeling of piezoelectric composite plates

Y. M. Liu, G. W. Ma and **Q. M. Li** 765 Chaotic and asymmetrical beam response to impulsive load

S.-M. Kim and **P. K. Nelson** 785 Experimental and numerical analyses of PCC overlays on PCC slabs-on-grade subjected to climatic loading

Z. Yang and **J. Chen** 801 Fully automatic modelling of cohesive discrete crack propagation in concrete beams using local arc-length methods

B. P. Gearing and **L. Anand** 827 Notch-sensitive fracture of polycarbonate

L. H. He, C. W. Lim and **B. S. Wu** 847 A continuum model for size-dependent deformation of elastic films of nano-scale thickness

R. H. Plaut, R. Paul Taylor and **D. A. Dillard** 859 Postbuckling and vibration of a flexible strip clamped at its ends to a hinged substrate

H. Irschik and **U. Pichler** 871 An extension of Neumann's method for shape control of force-induced elastic vibrations by eigenstrains

V. I. Kushch and **I. Sevostianov**	885	Effective elastic properties of the particulate composite with transversely isotropic phases
C. P. Spyropoulos	907	Energy release rate and path independent integral study for piezoelectric material with crack
S. Itou	923	Thermal stresses around a crack in the nonhomogeneous interfacial layer between two dissimilar elastic half-planes
W. Q. Chen, Z. G. Bian, C. F. Lv and **H. J. Ding**	947	3D free vibration analysis of a functionally graded piezoelectric hollow cylinder filled with compressible fluid
N. Wicks and **S. D. Guest**	965	Single member actuation in large repetitive truss structures
Z. Lovinger and **Y. Frostig**	979	High order behavior of sandwich plates with free edges—edge effects
M. E. Fares, Y. G. Youssif and **M. A. Hafiz**	1005	Structural and control optimization for maximum thermal buckling and minimum dynamic response of composite laminated plates
H. Yuan and **J. Chen**	1021	Comparison of computational predictions of material failure using nonlocal damage models
M. Ruzzene	1039	Dynamic buckling of periodically stiffened shells: application to supercavitating vehicles
T. Rabczuk and **J. Eibl**	1061	Numerical analysis of prestressed concrete beams using a coupled element free Galerkin/finite element approach
M. C. Walters, G. H. Paulino and **R. H. Dodds Jr.**	1081	Stress-intensity factors for surface cracks in functionally graded materials under mode-I thermomechanical loading
F. Kovács, T. Tarnai, P. W. Fowler and **S. D. Guest**	1119	A class of expandable polyhedral structures
E. P. Silva, P. M. C. L. Pacheco and **M. A. Savi**	1139	On the thermo-mechanical coupling in austenite–martensite phase transformation related to the quenching process
	III	Keywords

NUMBERS 5–6

D. Elata, R. Eshkenazy and **M. P. Weiss**	1157	The mechanical behavior of a wire rope with an independent wire rope core
D. R. Mahapatra and **S. Gopalakrishnan**	1173	Spectral finite element analysis of coupled wave propagation in composite beams with multiple delaminations and strip inclusions

W. Lacarbonara, D. Bernardini and F. Vestroni	1209	Nonlinear thermomechanical oscillations of shape-memory devices
S. Gutiérrez	1235	Rank-three laminates are good approximants of the optimal microstructures for the diffusion problem in dimension two
A. G. Kolpakov and A. L. Kalamkarov	1249	Thermoelastic characteristics of a composite solid with initial stresses
P. Hu	1263	Rate-dependent quasi-flow corner theory for elastic/visco-plastic materials
S. G. Mogilevskaya and S. L. Crouch	1285	A Galerkin boundary integral method for multiple circular elastic inclusions with uniform interphase layers
A. R. Shahani and M. Seyyedian	1313	Simulation of glass cutting with an impinging hot air jet
M. Cho and J. Oh	1331	Higher order zig-zag theory for fully coupled thermo-electric–mechanical smart composite plates
J. Oh and M. Cho	1357	A finite element based on cubic zig-zag plate theory for the prediction of thermo-electric-mechanical behaviors
S. Sihn, E. V. Iarve and A. K. Roy	1377	Three-dimensional stress analysis of textile composites: Part I. Numerical analysis
S. Sihn, E. V. Iarve and A. K. Roy	1395	Three-dimensional stress analysis of textile composites. Part II: Asymptotic analysis
G. Tarján and L. P. Kollár	1411	Approximate analysis of building structures with identical stories subjected to earthquakes
C. C. Hsiao, C. K. Chao and R. C. Chang	1435	Stress analysis of an elastic cracked layer bonded to a viscoelastic substrate
L. E. Fernández and G. Ayala	1453	Constitutive modeling of discontinuities by means of discrete and continuum approximations and damage models
M. Denda and M. E. Marante	1473	Mixed mode BEM analysis of multiple curvilinear cracks in the general anisotropic solids by the crack tip singular element
M. Mitra, S. Gopalakrishnan and M. S. Bhat	1491	A new super convergent thin walled composite beam element for analysis of box beam structures
D. Varelis and D. A. Saravanos	1519	Coupled buckling and postbuckling analysis of active laminated piezoelectric composite plates
F. L. Guo and G. A. Rogerson	1539	Dispersion phenomena in transversely isotropic piezoelectric plates with either short or open circuit boundary conditions

D. Karagiozova and **M. Alves**	1565	Transition from progressive buckling to global bending of circular shells under axial impact—Part I: Experimental and numerical observations
D. Karagiozova and **M. Alves**	1581	Transition from progressive buckling to global bending of circular shells under axial impact—Part II: Theoretical analysis
B. Temel	1605	Transient analysis of viscoelastic helical rods subject to time-dependent loads
S. S. Vel, R. C. Mewer and **R. C. Batra**	1625	Analytical solution for the cylindrical bending vibration of piezoelectric composite plates
A. Reyes, O. S. Hopperstad and **M. Langseth**	1645	Aluminum foam-filled extrusions subjected to oblique loading: experimental and numerical study
K. M. Liew and **X. L. Chen**	1677	Buckling of rectangular Mindlin plates subjected to partial in-plane edge loads using the radial point interpolation method
Y. Frostig and **O. T. Thomsen**	1697	High-order free vibration of sandwich panels with a flexible core
X.-p. Zhou	1725	Analysis of the localization of deformation and the complete stress–strain relation for mesoscopic heterogeneous brittle rock under dynamic uniaxial tensile loading
		Corrigendum
M. B. Rubin and **S. R. Bodner**	1739	"Modeling nonlinear dissipative response of biological tissues" by M.B. Rubin and S.R. Bodner [Int. J. Solids Struct. 39 (2002) 5081–5099]
	III	Keywords

NUMBER 7

Q. Lin and **P. Ermanni**	1741	Semi-active damping of a clamped plate using PZT
E. J. Sapountzakis and **V. G. Mokos**	1753	Nonuniform torsion of composite bars of variable thickness by BEM
S. Hao, W. K. Liu, P. A. Klein and **A. J. Rosakis**	1773	Modeling and simulation of intersonic crack growth
D. D. Theodorakopoulos, A. P. Chassiakos and **D. E. Beskos**	1801	Dynamic effects of moving load on a poroelastic soil medium by an approximate method

C.-S. Liu	1823	Lie symmetries of finite strain elastic–perfectly plastic models and exactly consistent schemes for numerical integrations
A. Dorfmann and **R. W. Ogden**	1855	A constitutive model for the Mullins effect with permanent set in particle-reinforced rubber
S.-Y. Lee, S.-C. Wooh and **S.-S. Yhim**	1879	Dynamic behavior of folded composite plates analyzed by the third order plate theory
T. J. Whitney, E. V. Iarve and **R. A. Brockman**	1893	Singular stress fields near contact boundaries in a composite bolted joint
F. Cluni and **V. Gusella**	1911	Homogenization of non-periodic masonry structures
P. Ladevèze, Ph. Sanchez and **J. G. Simmonds**	1925	Beamlike (Saint–Venant) solutions for fully anisotropic elastic tubes of arbitrary closed cross section
S. R. Swanson	1945	Hertzian contact of orthotropic materials
H.-S. Shen	1961	Thermal postbuckling behavior of functionally graded cylindrical shells with temperature-dependent properties
S. P. B. Proença and **A. R. Balbo**	1975	On a regular convex solver potential for an elastic-damage constitutive model: a theoretical analysis
J. F. Peters and **E. Heymsfield**	1991	FEM formulation of four and five noded elements using a linearly varying stress assumption
S. Ganapathysubramanian and **N. Zabaras**	2011	Deformation process design for control of microstructure in the presence of dynamic recrystallization and grain growth mechanisms
	III	Keywords

NUMBER 8

A SPECIAL ISSUE IN HONOUR OF PROFESSOR BRUNO A. BOLEY

	2039	*Preface*
	2041	*Editorial*
A. P. S. Selvadurai	2043	Stationary damage modelling of poroelastic contact
T. C. T. Ting	2065	The polarization vector and secular equation for surface waves in an anisotropic elastic half-space
Y. Chen, J. D. Lee and **A. Eskandarian**	2085	Atomistic viewpoint of the applicability of microcontinuum theories

J. D. Lee, Y. Chen and **A. Eskandarian**	2099	A micromorphic electromagnetic theory
R. Heuer and **F. Ziegler**	2111	Thermoelastic stability of layered shallow shells
M. Krommer and **H. Irschik**	2121	Boley's method for two-dimensional thermoelastic problems applied to piezoelastic structures
E. Camacho, R. Rand and **H. Howland**	2133	Dynamics of two van der Pol oscillators coupled via a bath
V. B. Rao	2145	An experimental-based model for prediction of flow noise with drag reducing polymers
A. Elías-Zúñiga	2155	Analysis of a beam-column system under varying axial forces of elliptic type: the exact solution of Lamé's equation
E. A. Malsch and **G. Dasgupta**	2165	Interpolations for temperature distributions: a method for all non-concave polygons
H. T. Liu and **L. Z. Sun**	2189	Effects of thermal residual stresses on effective elastoplastic behavior of metal matrix composites

NUMBERS 9–10

K. C. Jane and **Y. H. Wu**	2205	A generalized thermoelasticity problem of multi-layered conical shells
S. Kitipornchai, J. Yang and **K. M. Liew**	2235	Semi-analytical solution for nonlinear vibration of laminated FGM plates with geometric imperfections
A. Cecchi and **K. Sab**	2259	A comparison between a 3D discrete model and two homogenised plate models for periodic elastic brick-work
D. Sun, L. Tong and **D. Wang**	2277	An incremental algorithm for static shape control of smart structures with nonlinear piezoelectric actuators
B. Chen, Y. Huang, H. Gao and **W. Yang**	2293	On the finite opening of intersonic shear cracks
Y. A. Bahei-El-Din, A. M. Rajendran and **M. A. Zikry**	2307	A micromechanical model for damage progression in woven composite systems
S. Kuriakose and **R. Talreja**	2331	Variational solutions to stresses in cracked cross-ply laminates under bending
Yu. I. Mescheryakov, A. K. Divakov and **N. I. Zhigacheva**	2349	Shock-induced structural transitions and dynamic strength of solids
K. Y. Sze, X.-M. Yang and **H. Fan**	2363	Electric assumptions for piezoelectric laminate analysis

C. Polizzotto, P. Fuschi and **A. A. Pisano**	2383	A strain-difference-based nonlocal elasticity model
X.-L. Huang and **H.-S. Shen**	2403	Nonlinear vibration and dynamic response of functionally graded plates in thermal environments
W. Q. Chen, Y. F. Wang, J. B. Cai and **G. R. Ye**	2429	Three-dimensional analysis of cross-ply laminated cylindrical panels with weak interfaces
Q.-H. Qin and **J.-Q. Ye**	2447	Thermoelectroelastic solutions for internal bone remodeling under axial and transverse loads
J. Yoo and **H. Hong**	2461	A modified density approach for topology optimization in magnetic fields
F. M. Borodich and **L. M. Keer**	2479	Contact problems and depth-sensing nanoindentation for frictionless and frictional boundary conditions
Z. M. Xiao and **J. F. Zhao**	2501	Electro-elastic stress analysis for a Zener–Stroh crack at the metal/piezoelectric bi-material interface
R. El Fatmi and **H. Zenzri**	2521	A numerical method for the exact elastic beam theory. Applications to homogeneous and composite beams
R. Sburlati	2539	An exact solution for the impact law in thick elastic plates
D. J. Foster and **V. Berdichevsky**	2551	On Saint-Venant's principle in the two-dimensional flexural vibrations of elastic beams
M. Madadi, O. Tsoungui, M. Lätzel and **S. Luding**	2563	On the fabric tensor of polydisperse granular materials in 2D
S. Roychowdhury and **R. H. Dodds Jr.**	2581	Effect of *T*-stress on fatigue crack closure in 3-D small-scale yielding
F. Barpi and **S. Valente**	2607	A fractional order rate approach for modeling concrete structures subjected to creep and fracture
T. S. Kim, J. E. Kim and **Y. Y. Kim**	2623	Parallelized structural topology optimization for eigenvalue problems
H.-S. Shen	2643	Postbuckling prediction of double-walled carbon nanotubes under hydrostatic pressure
X.-B. Yu, Q.-P. Sun and **Z. Zhong**	2659	Effect of elastic matrix constraint on the tensile deformation of NiTi superelastic fiber
S. T. Ariaratnam and **N. M. Abdelrahman**	2685	Stochastic stability of non-gyroscopic viscoelastic systems
Q. D. Yang and **A. A. Volinsky**	2711	Effects of near-tip rotation on pre-buckle crack growth of compressed beams bonded to a rigid substrate

B. Maurin and **R. Motro** 2731 Stability and mechanism order of isotropic prestressed surfaces

H. Ye, C. Basaran and **D. C. Hopkins** 2743 Pb phase coarsening in eutectic Pb/Sn flip chip solder joints under electric current stressing

J. Wang and **P. Qiao** 2757 On the energy release rate and mode mix of delaminated shear deformable composite plates

A. Ya. Grigorenko and **G. G. Vlaikov** 2781 Investigation of the static and dynamic behaviour of anisotropic cylindrical bodies with noncircular cross-section

Erratum

M. A. El-Hadek and **H. V. Tippur** 2799 Dynamic fracture parameters and constraint effects in functionally graded syntactic epoxy foams [International Journal of Solids and Structures 40 (2003) 1885–1906]

III Keywords

VI Call for papers

NUMBERS 11–12

E. Kebadze, S. D. Guest and **S. Pellegrino** 2801 Bistable prestressed shell structures

H. Huang and **R. Feng** 2821 A study of the dynamic tribological response of closed fracture surface pairs by Kolsky-bar compression-shear experiment

L. F. Ma and **A. M. Korsunsky** 2837 Fundamental formulation for frictional contact problems of coated systems

D. Bigoni and **A. Piccolroaz** 2855 Yield criteria for quasibrittle and frictional materials

K. H. Lee 2879 Characteristics of a crack propagating along the gradient in functionally gradient materials

C. S. Lynch and **W. S. Oates** 2899 Orthotropic rescaling for crack tip fields in linear piezoelectric materials

G. Thiagarajan and **A. Misra** 2919 Fracture simulation for anisotropic materials using a virtual internal bond model

M. I. A. Othman 2939 Effect of rotation on plane waves in generalized thermo-elasticity with two relaxation times

G. Bolzon, G. Maier and **M. Panico** 2957 Material model calibration by indentation, imprint mapping and inverse analysis

J. Segurado and **J. LLorca**	2977	A new three-dimensional interface finite element to simulate fracture in composites
N. Rao and **J. Y. Li**	2995	The electrostriction of P(VDF-TrFE) copolymers embedded with textured dielectric particles
C.-D. Wang, W.-J. Wang and **T.-C. Lee**	3013	Three-dimensional buried non-linearly varying triangular loads on a transversely isotropic half-space
H. N. Arafat, A. H. Nayfeh and **W. Faris**	3031	Natural frequencies of heated annular and circular plates
P. F. Pai, L. Huang, S. H. Gopalakrishnamurthy and **J. H. Chung**	3053	Identification and applications of boundary effects in beams
J. Chen, J. Li and **J. Zhou**	3081	Seismic analysis of large 3-D underground caverns based on high performance recursive method
L. Liu, G. A. Kardomateas and **J. W. Holmes**	3095	Mixed-mode stress intensity factors for a crack in an anisotropic bi-material strip
L. Daridon, O. Oussouaddi and **S. Ahzi**	3109	Influence of the material constitutive models on the adiabatic shear band spacing: MTS, power law and Johnson–Cook models
B. P. Gearing and **L. Anand**	3125	On modeling the deformation and fracture response of glassy polymers due to shear-yielding and crazing
P. Lü, Q. Li and **Y. Song**	3151	Damage constitutive of concrete under uniaxial alternate tension–compression fatigue loading based on double bounding surfaces
E. Benvenuti	3167	Damage integration in the strain space
X.-F. Li and **K. Y. Lee**	3193	Dynamic behavior of a piezoelectric ceramic layer with two surface cracks
J. Tsai and **C. T. Sun**	3211	Dynamic compressive strengths of polymeric composites
Z. Qi, D. Kennedy and **F. W. Williams**	3225	An accurate method for transcendental eigenproblems with a new criterion for eigenfrequencies
H. Hirakata, T. Kitamura and **Y. Yamamoto**	3243	Evaluation of interface strength of micro-dot on substrate by means of AFM
Y. W. Liu, Q. H. Fang and **C. P. Jiang**	3255	A piezoelectric screw dislocation interacting with an interphase layer between a circular inclusion and the matrix
S. Opoka and **W. Pietraszkiewicz**	3275	Intrinsic equations for non-linear deformation and stability of thin elastic shells

S. Marfia, Z. Rinaldi and E. Sacco 3293 Softening behavior of reinforced concrete beams under cyclic loading

F. Nicot 3317 From constitutive modelling of a snow cover to the design of flexible protective structures Part I—Mechanical modelling

F. Nicot 3339 From constitutive modelling of a snow cover to the design of flexible protective structures Part II—Some numerical aspects

D. Mohr and M. Doyoyo 3353 Deformation-induced folding systems in thin-walled monolithic hexagonal metallic honeycomb

Correspondence

H. Pengfei 3379 Response to "Comment on 'The elliptical Hertzian contact of transversely isotropic magnetoelectroelastic bodies'"

Discussion

B. I. Fabrikant 3381 "The elliptical Hertizian contact of transversely isotropic magnetoelectroelastic bodies" by Hou et al., Vol. 40, 2003, pp. 2833–2850

III Keywords

VI Announcement

NUMBER 13

X. F. Yao, W. Xu, M. Q. Xu, G. C. Jin and H. Y. Yeh 3383 Caustic study on stress singularities in laminated composites under concentrated loads

S. Li, I. Miskioglu and B. S. Altan 3395 Solution to line loading of a semi-infinite solid in gradient elasticity

A. H. Sofiyev 3411 The stability of functionally graded truncated conical shells subjected to aperiodic impulsive loading

L. Marin and D. Lesnic 3425 The method of fundamental solutions for the Cauchy problem in two-dimensional linear elasticity

J. Kajberg and G. Lindkvist 3439 Characterisation of materials subjected to large strains by inverse modelling based on in-plane displacement fields

R. M. Haj-Ali and A. H. Muliana 3461 A multi-scale constitutive formulation for the non-linear viscoelastic analysis of laminated composite materials and structures

S.-C. Chang and **H.-P. Lin**	3491	Chaos attitude motion and chaos control in an automotive wiper system
Y. Z. Chen	3505	Singular integral equation method for the solution of multiple curved crack problems
S. L. dos Santos e Lucato, J. Wang, P. Maxwell, R. M. McMeeking and **A. G. Evans**	3521	Design and demonstration of a high authority shape morphing structure
G. Mirone	3545	A new model for the elastoplastic characterization and the stress–strain determination on the necking section of a tensile specimen
V. I. Gulyayev, I. L. Solovjev and **M. A. Belova**	3565	Interconnection of critical states of parabolic shells in simple and compound rotations with values of their natural precession vibration frequencies
N. Barbieri, P. R. Novak and **R. Barbieri**	3585	Experimental identification of damping
R. Kienzler and **G. Herrmann**	3595	On conservation laws in elastodynamics
S. Gomaa, T.-L. Sham and **E. Krempl**	3607	Finite element formulation for finite deformation, isotropic viscoplasticity theory based on overstress (FVBO)
S. Casolo	3625	Modelling in-plane micro-structure of masonry walls by rigid elements
E. G. Yanyutin and **I. V. Yanchevsky**	3643	Identification of an impulse load acting on an axisymmetrical hemispherical shell
X. Zhao	3653	An efficient approach for the numerical inversion of Laplace transform and its application in dynamic fracture analysis of a piezoelectric laminate
S. Liu, K.-Z. Chen and **X.-A. Feng**	3675	Prediction of viscoelastic property of layered materials

NUMBER 14

J. Z. Luo, T. G. Liu and **T. Zhang**	3689	Three-dimensional linear analysis for composite axially symmetrical circular plates
B. P. DiPaolo, P. J. M. Monteiro and **R. Gronsky**	3707	Quasi-static axial crush response of a thin-wall, stainless steel box component
J.-H. Kang and **A. W. Leissa**	3735	Three-dimensional vibrations of solid cones with and without an axial circular cylindrical hole
G. Z. Voyiadjis and **P. Woelke**	3747	A refined theory for thick spherical shells

C.-S. Liu	3771	Internal symmetry groups for the Drucker–Prager material model of plasticity and numerical integrating methods
A. R. Shahani and **M. Forqani**	3793	Static and dynamic fracture mechanics analysis of a DCB specimen considering shear deformation effects
A. Pantano and **R. C. Averill**	3809	A mesh-independent interface technology for simulation of mixed-mode delamination growth
M. Itskov and **N. Aksel**	3833	A class of orthotropic and transversely isotropic hyperelastic constitutive models based on a polyconvex strain energy function
Y.-S. Ing and **M.-J. Wang**	3849	Explicit transient solutions for a mode III crack subjected to dynamic concentrated loading in a piezoelectric material
M. A. Guler and **F. Erdogan**	3865	Contact mechanics of graded coatings
B. Taljat and **G. M. Pharr**	3891	Development of pile-up during spherical indentation of elastic–plastic solids
G. D. Manolis, **P. S. Dineva** and **T. V. Rangelov**	3905	Wave scattering by cracks in inhomogeneous continua using BIEM
D. S. Ramrakhyani, **G. A. Lesieutre** and **E. C. Smith**	3929	Modeling of elastomeric materials using nonlinear fractional derivative and continuously yielding friction elements
G.-T. Liu, **T.-Y. Fan** and **R.-P. Guo**	3949	Governing equations and general solutions of plane elasticity of one-dimensional quasicrystals
M. E. Marante, **R. Picón** and **J. Flórez-López**	3961	Analysis of localization in frame members with plastic hinges
	III	Keywords

NUMBER 15

T. Muhammad and **A. V. Singh**	3977	A p-type solution for the bending of rectangular, circular, elliptic and skew plates
S. S. Kulkarni, **S. Mukherjee** and **M. D. Grigoriu**	3999	A local method for solutions in two-dimensional potential theory and linear elasticity
K. S. Alfredsson and **U. Stigh**	4025	Continuum damage mechanics revised. A principle for mechanical and thermal equivalence
M. Schanz and **D. Pryl**	4047	Dynamic fundamental solutions for compressible and incompressible modeled poroelastic continua

S. Y. Wang	4075	A finite element model for the static and dynamic analysis of a piezoelectric bimorph
I. Ecsedi	4097	A formula for the generalized twist
M. Ciavarella, G. Murolo and **G. Demelio**	4107	The electrical/thermal conductance of rough surfaces—the Weierstrass–Archard multiscale model
N. Takano and **Y. Okuno**	4121	Three-scale finite element analysis of heterogeneous media by asymptotic homogenization and mesh superposition methods
X.-F. Li and **K. Y. Lee**	4137	Fracture analysis of cracked piezoelectric materials
L. J. De Chant	4163	An explanation for the minimal effect of body curvature on hypervelocity penetration hole formation
C.-H. Chue and **T. J.-C. Liu**	4179	Electro-elastic analysis of a bimaterial piezoelectric wedge with an interface crack under antiplane concentrated forces and inplane surface charges
S. Mahesh, J. C. Hanan, E. Üstündag and **I. J. Beyerlein**	4197	Shear-lag model for a single fiber metal matrix composite with an elasto-plastic matrix and a slipping interface
N. Blanco, E. K. Gamstedt, L. E. Asp and **J. Costa**	4219	Mixed-mode delamination growth in carbon–fibre composite laminates under cyclic loading
G. Limbert and **J. Middleton**	4237	A transversely isotropic viscohyperelastic material Application to the modeling of biological soft connective tissues
M. Itskov	4261	Comments on "Exact expansions of arbitrary tensor functions **F(A)** and their derivatives" [Int. J. Solids Struct. 41 (2004) 337–349]

NUMBERS 16–17

N. Ohno, S. Okabe and **T. Okabe**	4263	Stress concentrations near a fiber break in unidirectional composites with interfacial slip and matrix yielding
C. M. Wang, Y. Chen and **Y. Xiang**	4279	Plastic buckling of rectangular plates subjected to intermediate and end inplane loads
X.-Q. Feng and **Y. Huang**	4299	Mechanics of Smart-Cut® technology
D. Wu and **S. S. Law**	4321	Anisotropic damage model for an inclined crack in thick plate and sensitivity study for its detection
B. L. Wang and **X. H. Zhang**	4337	An electrical field based non-linear model in the fracture of piezoelectric ceramics

J.-Y. Kim	4349	On the generalized self-consistent model for elastic wave propagation in composite materials
X. Jiang and **E. Pan**	4361	Exact solution for 2D polygonal inclusion problem in anisotropic magnetoelectroelastic full-, half-, and bimaterial-planes
L. Berto, A. Saetta, R. Scotta and **R. Vitaliani**	4383	Shear behaviour of masonry panel: parametric FE analyses
Z.-G. Zhou and **B. Wang**	4407	Two parallel symmetry permeable cracks in functionally graded piezoelectric/piezomagnetic materials under anti-plane shear loading
G. Liu, C.-W. Nan, N. Cai and **Y. Lin**	4423	Calculations of giant magnetoelectric effect in multiferroic composites of rare-earth-iron alloys and PZT by finite element method
D. Mohr and **M. Doyoyo**	4435	Large plastic deformation of metallic honeycomb: orthotropic rate-independent constitutive model
S.-Y. Lee and **S.-S. Yhim**	4457	Dynamic analysis of composite plates subjected to multi-moving loads based on a third order theory
C. Maurini, J. Pouget and **F. dell'Isola**	4473	On a model of layered piezoelectric beams including transverse stress effect
D. A. Galletly and **S. D. Guest**	4503	Bistable composite slit tubes. II. A shell model
D. A. Galletly and **S. D. Guest**	4517	Bistable composite slit tubes. I. A beam model
R. T. Faal, A. R. Fotuhi, S. J. Fariborz and **H. R. Daghyani**	4535	Antiplane stress analysis of an isotropic wedge with multiple cracks
L. Kucherov and **M. Ryvkin**	4551	Elastic solutions for periodically layered strip with perfect bonding or with an interface crack
G. J. Chen	4567	Consolidation of multilayered half space with anisotropic permeability and compressible constituents
M. D. Sharma	4587	Wave propagation in a general anisotropic poroelastic medium with anisotropic permeability: phase velocity and attenuation
D. D. Milašinović	4599	Rheological–dynamical analogy: visco-elasto-plastic behavior of metallic bars
X. Chen, N. Chandra and **A. M. Rajendran**	4635	Analytical solution to the plate impact problem of layered heterogeneous material systems
S. Kapuria and **G. G. S. Achary**	4661	An efficient higher order zigzag theory for laminated plates subjected to thermal loading

A. E.-F. A. Rizk	4685	Periodic array of cracks in a strip subjected to surface heating
D. Zhou, S. H. Lo, Y. K. Cheung and **F. T. K. Au**	4697	3-D vibration analysis of generalized super elliptical plates using Chebyshev–Ritz method
F. Xun, G. Hu and **Z. Huang**	4713	Size-dependence of overall in-plane plasticity for fiber composites
P. Isaksson, R. Hägglund and **P. Gradin**	4731	Continuum damage mechanics applied to paper
J. Lu, G. M. Newaz and **R. F. Gibson**	4757	The role of adhesive in the mechanical response of adhesively bonded aluminum hat sections under axial compression
H.-S. Shen and **Q. S. Li**	4769	Postbuckling of shear deformable laminated plates resting on a tensionless elastic foundation subjected to mechanical or thermal loading
K. S. Alfredsson	4787	On the instantaneous energy release rate of the end-notch flexure adhesive joint specimen
H.-S. Shen and **L. Yu**	4809	Nonlinear bending behavior of Reissner–Mindlin plates with free edges resting on tensionless elastic foundations
V. A. Buryachenko and **G. A. Schoeppner**	4827	Effective elastic and failure properties of fiber aligned composites
G. Dui and **Y.-c. Chen**	4845	Basis-free representations for the stress rate of isotopic materials

NUMBERS 18–19

N. M. Auciello and **A. Ercolano**	4861	A general solution for dynamic response of axially loaded non-uniform Timoshenko beams
Q. Wang	4875	A comprehensive stability analysis of a cracked beam subjected to follower compression
M. M. Tilleman	4889	Analysis of electrostatic comb-driven actuators in linear and nonlinear regions
M. El-Raheb	4899	Transient response of a metallic capsule to an internal pressure pulse
E. G. Yanyutin and **A. V. Voropay**	4919	Controlling nonstationary vibrations of a plate by means of additional loads
S. Gao, L. Jin and **H. Liu**	4927	Dynamic response of a projectile perforating multi-plate concrete targets

H. Ye, C. Basaran and **D. C. Hopkins**	4939	Deformation of solder joint under current stressing and numerical simulation—I
H. Ye, C. Basaran and **D. C. Hopkins**	4959	Deformation of solder joint under current stressing and numerical simulation—II
R. H. Plaut and **L. N. Virgin**	4975	Three-dimensional postbuckling and vibration of vertical half-loop under self-weight
L. N. Virgin and **R. H. Plaut**	4989	Postbuckling and vibration of linearly elastic and softening columns under self-weight
S.-E. Kim and **K.-W. Kang**	5003	Large-scale testing of 3-D steel frame accounting for local buckling
C.-H. Chue and **W.-J. Liu**	5023	Comments on "Analysis of an isotropic finite wedge under antiplane deformation" [Int. J. Solids Struct. 34 (1997) 113–128]
S. Park, S. Choi, C. Sikorsky and **N. Stubbs**	5035	Efficient method for calculation of system reliability of a complex structure
M. El-Raheb	5051	Wave propagation in a hollow cylinder due to prescribed velocity at the boundary
H. Steeb and **S. Diebels**	5071	Modeling thin films applying an extended continuum theory based on a scalar-valued order parameter. Part I: isothermal case
Y. Wei	5087	Modeling nonlinear peeling of ductile thin films—critical assessment of analytical bending models using FE simulations
L. Valdevit, J. W. Hutchinson and **A. G. Evans**	5105	Structurally optimized sandwich panels with prismatic cores
A. N. Galybin and **Sh. A. Mukhamediev**	5125	Determination of elastic stresses from discrete data on stress orientations
N. Guyot, Y. Harmand and **A. Mézin**	5143	The role of the sample shape and size on the internal stress induced curvature of thin-film substrate systems
A. Chakraborty and **S. Gopalakrishnan**	5155	A spectrally formulated finite element for wave propagation analysis in layered composite media
E. Taciroglu, C. W. Liu, S. B. Dong and **C. K. Chun**	5185	Analysis of laminated piezoelectric circular cylinders under axisymmetric mechanical and electrical loads with a semi-analytic finite element method
L. P. Evers, W. A. M. Brekelmans and **M. G. D. Geers**	5209	Scale dependent crystal plasticity framework with dislocation density and grain boundary effects

H. L. Dai and **X. Wang** 5231 Dynamic responses of piezoelectric hollow cylinders in an axial magnetic field

W. Q. Chen, J. B. Cai, G. R. Ye and **Y. F. Wang** 5247 Exact three-dimensional solutions of laminated orthotropic piezoelectric rectangular plates featuring interlaminar bonding imperfections modeled by a general spring layer

D. W. Barclay 5265 The shock pattern for axially symmetric shear wave propagation in a hyperelastic incompressible solid

B. J. Chen, K. M. Liew and **Z. M. Xiao** 5285 Green's functions for anti-plane problems in piezoelectric media with a finite crack

O. U. Colak 5301 Modeling of the monotonic and cyclic swift effects using anisotropic finite viscoplasticity theory based on overstress (AFVBO): Part I—Constitutive model

O. U. Colak 5313 Modeling of monotonic and cyclic Swift effect using anisotropic finite viscoplasticity theory based on overstress (AFVBO): Part II—Numerical experiments

M. M. Attard and **G. W. Hunt** 5327 Hyperelastic constitutive modeling under finite strain

T. Merlini and **M. Morandini** 5351 The helicoidal modeling in computational finite elasticity. Part I: Variational formulation

T. Merlini and **M. Morandini** 5383 The helicoidal modeling in computational finite elasticity. Part II: Multiplicative interpolation

T. Vodenitcharova and **L. C. Zhang** 5411 A new constitutive model for the phase transformations in mono-crystalline silicon

A. Kühhorn and **M. Golze** 5425 Thickness flexible sandwich theory for the common description of global and local effects

Discussion

S. J. Fariborz 5447 Closure on "Analysis of an isotropic finite wedge under antiplane deformation"

Erratum

V. I. Fabrikant 5449 "Discussion paper, "The elliptical Hertizian contact of transversely isotropic magnetoelectroelastic bodies" by Hou et al., Vol. 40, 2003, pp. 2833–2850" [Int. J. Solids Struct. 41 (2004) 3381]

NUMBER 20

Q. Wang 5451 Effective in-plane stiffness and bending rigidity of armchair and zigzag carbon nanotubes

S. Kyriakides and **T. A. Netto**	5463	On the dynamic propagation and arrest of buckles in pipe-in-pipe systems
H. Yang and **Z. Han**	5483	Solving non-linear viscoelastic problems via a self-adaptive precise algorithm in time domain
A. Carpinteri, A. Spagnoli and **S. Vantadori**	5499	A fracture mechanics model for a composite beam with multiple reinforcements under cyclic bending
C. J. Gantes and **E. Konitopoulou**	5517	Geometric design of arbitrarily curved bi-stable deployable arches with discrete joint size
M. Khojastehpour and **K. Hashiguchi**	5541	Plane strain bifurcation analysis of soils by the tangential–subloading surface model
W. Lacarbonara and **R. Camillacci**	5565	Nonlinear normal modes of structural systems via asymptotic approach
M. Pircher	5595	The influence of a weld-induced axi-symmetric imperfection on the buckling of a medium-length silo under wind loading
J. Aboudi	5611	Micromechanics-based thermoviscoelastic constitutive equations for rubber-like matrix composites at finite strains
H. J. Choi	5631	Impact response of a surface crack in a coating/substrate system with a functionally graded interlayer: antiplane deformation
S.-M. Kim	5647	Buckling and vibration of a plate on elastic foundation subjected to in-plane compression and moving loads
J. F. Zhao and **Z. M. Xiao**	5663	An inclined Zener–Stroh crack near a free surface
O. Rabinovitch	5677	Nonlinear (buckling) effects in RC beams strengthened with composite materials subjected to compression
D. Durban and **R. Masri**	5697	Dynamic spherical cavity expansion in a pressure sensitive elastoplastic medium
R. Gilat and **J. Aboudi**	5717	Dynamic response of active composite plates: shape memory alloy fibers in polymeric/metallic matrices
A. D. Lanzo	5733	On elastic beam models for stability analysis of multilayered rubber bearings
J. Lu	5759	Author's closure

NUMBER 21

GRANULAR MECHANICS SPECIAL ISSUE

Foreword

K. Bagi 5761 Granular mechanics special issue

L. Rothenburg and **N. P. Kruyt** 5763 Critical state and evolution of coordination number in simulated granular materials

M. Satake 5775 Tensorial form definitions of discrete-mechanical quantities for granular assemblies

M. R. Kuhn and **K. Bagi** 5793 Contact rolling and deformation in granular media

S. Luding 5821 Micro–macro transition for anisotropic, frictional granular packings

F. Emeriault and **C. Claquin** 5837 Statistical homogenization for assemblies of elliptical grains: effect of the aspect ratio and particle orientation

J. D. Goddard 5851 On entropy estimates of contact forces in static granular assemblies

S. J. Antony and **M. R. Kuhn** 5863 Influence of particle shape on granular contact signatures and shear strength: new insights from simulations

T.-T. Ng 5871 Macro- and micro-behaviors of granular materials under different sample preparation methods and stress paths

B. S. Gardiner and **A. Tordesillas** 5885 Micromechanics of shear bands

E. Bauer, W. Huang and **W. Wu** 5903 Investigations of shear banding in an anisotropic hypoplastic material

P. Ván 5921 Weakly nonlocal continuum theories of granular media: restrictions from the Second Law

Y. Y. Foo, Y. Sheng and **B. J. Briscoe** 5929 An experimental and numerical study of the compaction of alumina agglomerates

A. Nardin and **B. A. Schrefler** 5945 Numerical simulation of rock behaviour through a discrete model

B. Eiliazadeh, K. Pitt and **B. Briscoe** 5967 Effects of punch geometry on powder movement during pharmaceutical tabletting processes

NUMBERS 22–23

L. H. Dai, L. F. Liu and **Y. L. Bai**	5979	Formation of adiabatic shear band in metal matrix composites
J. L. Raphanel, G. Ravichandran and **Y. M. Leroy**	5995	Three-dimensional rate-dependent crystal plasticity based on Runge–Kutta algorithms for update and consistent linearization
L. Jun, S. Rongying, H. Hongxing and **J. Xianding**	6023	Response of monosymmetric thin-walled Timoshenko beams to random excitations
R.-L. Lin and **C.-C. Ma**	6041	Theoretical full-field analysis of dissimilar isotropic composite annular wedges under anti-plane deformations
A. R. Khoei and **A. Bakhshiani**	6081	A hypoelasto-plastic finite strain simulation of powder compaction processes with density-dependent endochronic model
J. Dollhofer, A. Chiche, V. Muralidharan, C. Creton and **C. Y. Hui**	6111	Surface energy effects for cavity growth and nucleation in an incompressible neo-Hookean material—modeling and experiment
Y. P. Wan, D. N. Fang and **A. K. Soh**	6129	A small-scale magnetic-yielding model for an infinite magnetostrictive plane with a crack-like flaw
S. Liu, Y. J. Chao and **X. Zhu**	6147	Tensile-shear transition in mixed mode I/III fracture
X.-p. Zhou, Y.-x. Zhang, Q.-l. Ha and **K.-s. Zhu**	6173	Bounds on the complete stress–strain relation for a crack-weakened rock mass under compressive loads
Y.-S. Ing and **M.-J. Wang**	6197	Transient analysis of a mode-III crack propagating in a piezoelectric medium
M. Cheng, W. Chen and **T. Weerasooriya**	6215	Experimental investigation of the transverse mechanical properties of a single Kevlar® KM2 fiber
C. K. Chao and **F. M. Chen**	6233	Thermal stresses in an isotropic trimaterial interacted with a pair of point heat source and heat sink
F. W. Zok, S. A. Waltner, Z. Wei, H. J. Rathbun, R. M. McMeeking and **A. G. Evans**	6249	A protocol for characterizing the structural performance of metallic sandwich panels: application to pyramidal truss cores
G. W. Ma, Y. M. Liu and **Q. M. Li**	6273	Characterization of asymmetrical beam instability to impulsive load
C. M. Landis	6291	Energetically consistent boundary conditions for electromechanical fracture
P. Sharma	6317	Size-dependent elastic fields of embedded inclusions in isotropic chiral solids

H. Bai, E. Taciroglu, S. B. Dong and **A. H. Shah**	6335	Elastodynamic Green's functions for a laminated piezoelectric cylinder
Q. Luo and **L. Tong**	6351	Linear and higher order displacement theories for adhesively bonded lap joints
C. Blanzé and **L. Champaney**	6383	A computational strategy for the random response of assemblies of structures
D. A. Danielson and **A. Wilmer**	6407	Buckling of stiffened plates with bulb flat flanges
X. Wang, Y. C. Zhang, X. H. Xia and **C. H. Huang**	6429	Effective bending modulus of carbon nanotubes with rippling deformation
N. Jones and **M. Alves**	6441	Post-severance analysis of impulsively loaded beams
G.-W. Jang, Y. Y. Kim and **K. K. Choi**	6465	Remesh-free shape optimization using the wavelet-Galerkin method
M. Shazly, V. Prakash and **S. Draper**	6485	Mechanical behavior of Gamma-Met PX under uniaxial loading at elevated temperatures and high strain rates
P. N. Panagopoulos, A. F. Vakakis and **S. Tsakirtzis**	6505	Transient resonant interactions of finite linear chains with essentially nonlinear end attachments leading to passive energy pumping
V. S. Sokolinsky, H. F. von Bremen, J. J. Lesko and **S. R. Nutt**	6529	Higher-order free vibrations of sandwich beams with a locally damaged core
J. Zeman and **M. Šejnoha**	6549	Homogenization of balanced plain weave composites with imperfect microstructure: Part I—Theoretical formulation
F. Zhou and **J.-F. Molinari**	6573	Stochastic fracture of ceramics under dynamic tensile loading
R. Karami Mohammadi, M. H. El Naggar and **H. Moghaddam**	6597	Optimum strength distribution for seismic resistant shear buildings

NUMBERS 24–25

C.-F. Gao, P. Tong and **T.-Y. Zhang**	6613	Fracture mechanics for a mode III crack in a magnetoelectroelastic solid
B. Langrand and **A. Combescure**	6631	Non-linear and failure behaviour of spotwelds: a "global" finite element and experiments in pure and mixed modes I/II
H.-C. Tsai	6647	Compression stiffness of infinite-strip bearings of laminated elastic material interleaving with flexible reinforcements

Y. J. Yan, H. N. Hao and **L. H. Yam**	6661	Vibration-based construction and extraction of structural damage feature index
H. Zhao and **S. Abdennadher**	6677	On the strength enhancement under impact loading of square tubes made from rate insensitive metals
F. L. Chen and **T. X. Yu**	6699	An experimental study of pre-notched clamped beams under impact loading
J.-F. Lu and **A. Hanyga**	6725	Dynamic interaction between multiple cracks and a circular hole swept by SH waves
Y. Zhang and **K. D. Murphy**	6745	Response of a finite beam in contact with a tensionless foundation under symmetric and asymmetric loading
I. Schmidt	6759	Deformation induced elasto-plastic anisotropy in metal foams—modelling and simulation
M. Peigney	6783	Simulating wear under cyclic loading by a minimization approach
X. M. Yang, Y. T. Hu and **J. S. Yang**	6801	Electric field gradient effects in anti-plane problems of polarized ceramics
M. Stoffel	6813	Evolution of plastic zones in dynamically loaded plates using different elastic–viscoplastic laws
L. Tong and **X. Sun**	6831	Bending effect of through-thickness reinforcement rods on mode I delamination toughness of DCB specimen. I. Linearly elastic and rigid-perfectly plastic models
T. S. Plagianakos and **D. A. Saravanos**	6853	High-order layerwise mechanics and finite element for the damped dynamic characteristics of sandwich composite beams
S. Leungvichcharoen, A. C. Wijeyewickrema and **T. Yamamoto**	6873	Anti-symmetric waves in pre-stressed imperfectly bonded incompressible elastic layered composites
W. Hong and **Z. Suo**	6895	Molecular assembly on cylindrical surfaces
I. Tsukrov and **J. Novak**	6905	Effective elastic properties of solids with two-dimensional inclusions of irregular shapes
Z. Li, P. Dharap, S. Nagarajaiah, R. P. Nordgren and **B. Yakobson**	6925	Nonlinear analysis of a SWCNT over a bundle of nanotubes
E. Martin and **D. Leguillon**	6937	Energetic conditions for interfacial failure in the vicinity of a matrix crack in brittle matrix composites
M. D. Xue, D. F. Li and **K. C. Hwang**	6949	Analytical solution of two intersecting cylindrical shells subjected to transverse moment on nozzle

J. J. Muñoz and **G. Jelenić**	6963	Sliding contact conditions using the master–slave approach with application on geometrically non-linear beams
P. J. Wei and **Z. P. Huang**	6993	Dynamic effective properties of the particle-reinforced composites with the viscoelastic interphase
M. B. Rubin	7009	Restrictions on linear constitutive equations for a rigid heat conducting Cosserat shell
M. Premrov, P. Dobrila and **B. S. Bedenik**	7035	Analysis of timber-framed walls coated with CFRP strips strengthened fibre-plaster boards
D. Dini and **D. A. Hills**	7049	Bounded asymptotic solutions for incomplete contacts in partial slip
Z. Lin, C. Lingcang, L. Yinglei, P. Jianxiang, J. Fuqian and **C. Dongquan**	7063	Simplified model for prediction of dynamic damage and fracture of ductile materials
Y. Li, J.-Q. Xu and **L. Fu**	7075	Fundamental solution for bonded materials with a free surface parallel to the interface. Part I: Solution of concentrated forces acting at the inside of the material with a free surface
J. L. Yang, X. H. Liu and **Y. L. Hua**	7091	Plastic dynamic breakup of a free–free beam subjected to impact at two free ends
X. Wang, Y. Zhou and **W. Zhou**	7111	A novel hybrid finite element with a hole for analysis of plane piezoelectric medium with defects
B. L. Tyagi, H. Abbas, M. Arif and **N. K. Gupta**	7129	Change in thickness in curved fold model for axial crushing of tubes
C. Y. Song, J. G. Teng and **J. M. Rotter**	7155	Imperfection sensitivity of thin elastic cylindrical shells subject to partial axial compression
S. Bratina, M. Saje and **I. Planinc**	7181	On materially and geometrically non-linear analysis of reinforced concrete planar frames
Z. P. Bažant and **G. Di Luzio**	7209	Nonlocal microplane model with strain-softening yield limits

NUMBER 26

M. Denda, Y. Araki and **Y. K. Yong**	7241	Time-harmonic BEM for 2-D piezoelectricity applied to eigenvalue problems
B. N. Legarth	7267	Unit cell debonding analyses for arbitrary orientation of plastic anisotropy
D.-F. Sheng and **C.-J. Cheng**	7287	Dynamical behaviors of nonlinear viscoelastic thick plates with damage

X. Y. Li, Z. K. Wang and **S. H. Huang**	7309	Love waves in functionally graded piezoelectric materials
F. Marotti de Sciarra	7329	Nonlocal and gradient rate plasticity
A. Delafargue and **F.-J. Ulm**	7351	Explicit approximations of the indentation modulus of elastically orthotropic solids for conical indenters
F. Kobayashi, S. Biwa and **N. Ohno**	7361	Wave transmission characteristics in periodic media of finite length: multilayers and fiber arrays
V. A. Lubarda	7377	On thermodynamic potentials in linear thermoelasticity
R. S. Kumar and **D. L. McDowell**	7399	Generalized continuum modeling of 2-D periodic cellular solids
P. Qiao and **J. Wang**	7423	Mechanics and fracture of crack tip deformable bi-material interface
D. Wang	7445	Optimization of support positions to minimize the maximal deflection of structures
N. Böck and **G. A. Holzapfel**	7459	A new two-point deformation tensor and its relation to the classical kinematical framework and the stress concept
L. Shen and **J. Li**	7471	A numerical simulation for effective elastic moduli of plates with various distributions and sizes of cracks
A. Gajo and **B. Loret**	7493	Transient analysis of ionic replacements in elastic–plastic expansive clays
	I	Index to Vol. 41, 2004
	III	Volume Contents
	XXIX	Author Index